

AN ANALOG PROGRAMMABLE SYSTEM ON A CHIP ARCHITECTURE

ABSTRACT OF THE INVENTION

A programmable analog system architecture and method thereof are

- 5 described. The analog system architecture and method introduce a single chip solution that contains a set of tailored analog blocks and elements that can be configured and reconfigured in different ways to implement a variety of different analog functions. The architecture includes an array of analog blocks, including continuous time blocks and different types of switched capacitor blocks. The
- 10 analog blocks can be electrically coupled to each other in different combinations to perform different analog functions. Each analog block includes analog elements that have changeable characteristics that can be specified according to the function to be performed. The architecture thereby facilitates the design of customized chips at less time and expense.